New 12" woofer in the CC line. It has the same long voice coil as the 10" 831727 but to obtain optimal parameters with the extra heavy moving system a new and even heavier magnet has been used. It has also rubber surround and thick polypropylene cone. Not less than 1.3 kg magnet and of course short circuiting ring and all the well-known features of the CC line.

### 12" Woofer

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice coil resistance</td>
<td>3.5</td>
</tr>
<tr>
<td>Voice coil inductance</td>
<td>2.8</td>
</tr>
<tr>
<td>Capacitor in series with 8Ω (For impedance compensation)</td>
<td>Cc (µF)</td>
</tr>
<tr>
<td>Resonance frequency Ss (Ω)</td>
<td>24.0</td>
</tr>
<tr>
<td>Mechanical Q factor Qms</td>
<td>372</td>
</tr>
<tr>
<td>Electrical Q factor Qes</td>
<td>8.49</td>
</tr>
<tr>
<td>Total Q factor Qta</td>
<td>0.44</td>
</tr>
<tr>
<td>F (Ratio 6/16Ω) F (Ω)</td>
<td>50</td>
</tr>
<tr>
<td>Mechanical resistance Rms (Ω/v)</td>
<td>2.25</td>
</tr>
<tr>
<td>Moving mass Mms</td>
<td>10.2</td>
</tr>
<tr>
<td>Suspension compliance Cms (mm/N·s)</td>
<td>0.95</td>
</tr>
<tr>
<td>Effective cone diameter D (mm)</td>
<td>35.7</td>
</tr>
<tr>
<td>Effective pole arc λd (mm/°)</td>
<td>1500</td>
</tr>
<tr>
<td>Effective Q factor Qes</td>
<td>8.25</td>
</tr>
<tr>
<td>Reference Voltage Sensitivity (dB)</td>
<td>88.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Magnet and voice coil parameters</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voice coil diameter d</td>
<td>19.00</td>
</tr>
<tr>
<td>Voice coil length L</td>
<td>260.00</td>
</tr>
<tr>
<td>Voice coil square a</td>
<td>4.00</td>
</tr>
<tr>
<td>Flux density in gap B</td>
<td>0.39</td>
</tr>
<tr>
<td>Total useful flux Φ1</td>
<td>132.00</td>
</tr>
<tr>
<td>Height of the gap h</td>
<td>8.00</td>
</tr>
<tr>
<td>Diameter of magnet d</td>
<td>39.00</td>
</tr>
<tr>
<td>Height of magnet h</td>
<td>32.00</td>
</tr>
<tr>
<td>Weight of magnet kg</td>
<td>1.28</td>
</tr>
</tbody>
</table>

### Power handling

- **Long-term Max:** 230 W
- **Max short circuit:** 880 W
- **Frequency range for low signal:** 20-20000 Hz

### Reference Voltage Sensitivity

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>Sensitivity (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>88.3</td>
</tr>
</tbody>
</table>

### Frequency response and impedance curve

- **Frequency range:** 20-20000 Hz
- **Impedance curve:**
  - **0.5 V:** 12.0
  - **1.0 V:** 17.0
  - **5.0 V:** 31.0

### Distortion and Harmonic distortion

- **Distortion:**
  - **1.0 V:** 20.0
  - **5.0 V:** 31.0

- **Harmonic distortion:**
  - **1.0 V:** 20.0
  - **5.0 V:** 50.0